

PROCENTEC

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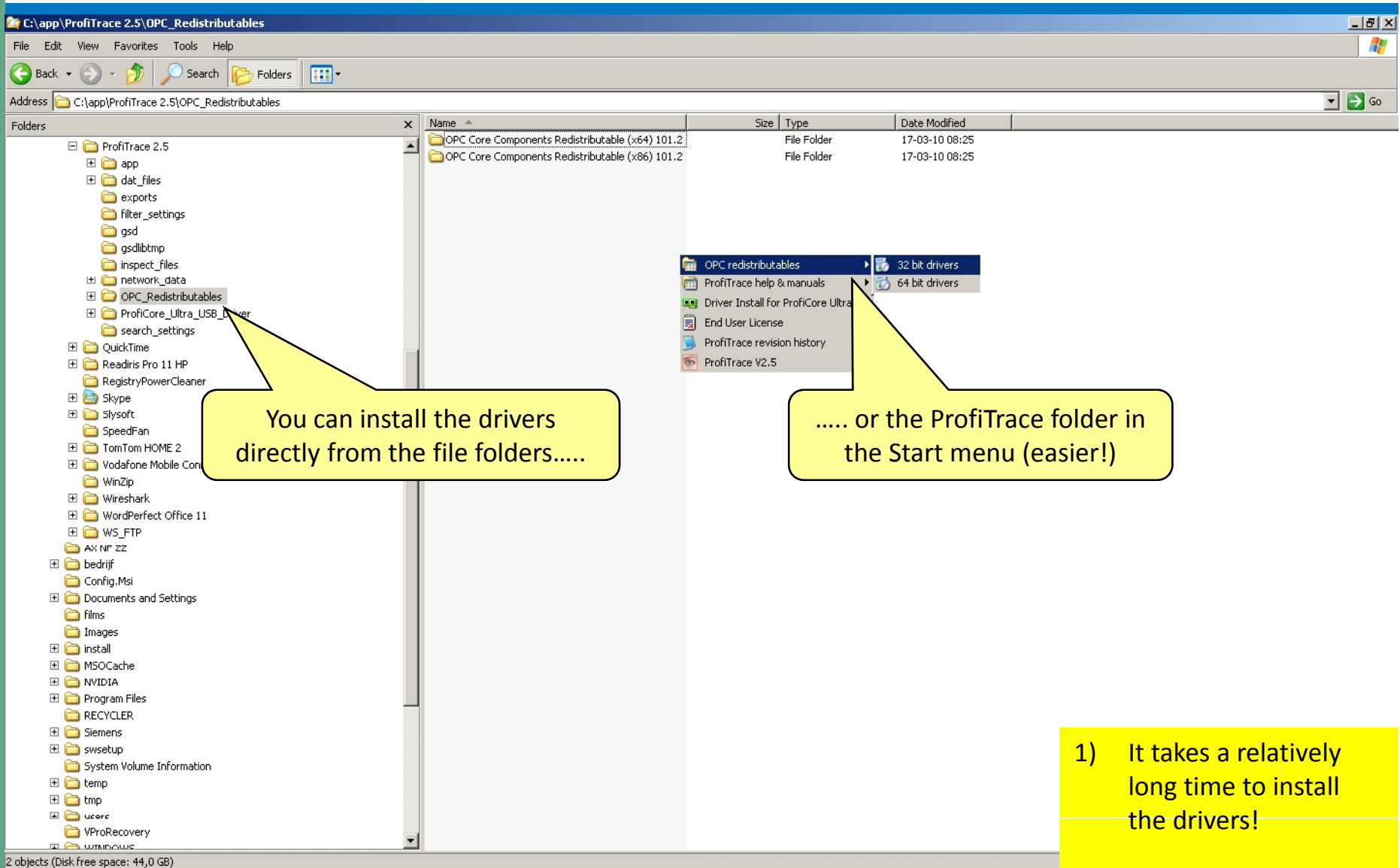


PROFI PROFI
BUS NET

OPC with ProfiTrace

Setting up ProfiTrace

First install the OPC drivers



Select Setup OPC Tag Settings

The screenshot shows the ProfiTrace for ProfiCore Ultra v2.5 (c) 2004-2010 PROCENTEC software interface. The 'Settings' menu is open, and 'Setup OPC Tag Settings' is highlighted. A yellow callout box points to this menu item with the text 'Select Setup OPC Tag Settings'. The main window displays a grid of numerical data.

	0	1	2	3	4	5	6	7	8	9
0	0					5	6	7	8	9
10	10	11	12	13	14	15	16	17	18	19
20	20	21	22	23	24	25	26	27	28	29
30	30	31	32	33	34	35	36	37	38	39
40	40	41	42	43	44	45	46	47	48	49
50	50	51	52	53	54	55	56	57	58	59
60	60	61	62	63	64	65	66	67	68	69
70	70	71	72	73	74	75	76	77	78	79
80	80	81	82	83	84	85	86	87	88	89
90	90	91	92	93	94	95	96	97	98	99
100	100	101	102	103	104	105	106	107	108	109
110	110	111	112	113	114	115	116	117	118	119
120	120	121	122	123	124	125	126			

Adding OPC Tags

OPC Server Tags

Buttons: Add Tag, Delete Tag, Edit Tag, Load Tag Data, Save Tag Data, Reset all

Tags List:

- UserDefined
 - DP-V0 Scanned DX inputs
 - Switch
 - DP-V0 Scanned DX outputs
- System
 - General
 - Onlinestatus
 - Baudrate
 - Statistic
 - Syncs
 - Retries
 - RetriesWorst
 - StationLost
 - IllegalResponses
 - DXIntervalLast
 - DXIntervalSlowest
 - DXIntervalFastest
 - DXFrequencyLast
 - DXNumInputs
 - DXRateOfInputChangeLast
 - DXRateOfInputChangeFastest
 - DXNumOutputs
 - DXRateOfOutputChangeLast
 - DXRateOfOutputChangeFastest
 - DiagReqCount
 - DiagResCount
 - DiagResCountWhileInDX
 - DiagSizeLast
 - DiagSizeLargest
 - LiveList
 - Status
 - Addr000
 - Addr001
 - Addr002
 - Addr003

Properties Table:

Property	Value
TagName	Switch
DataType	Unsigned8 (VT_UI1)
AccessRights	Read
Device Address	32
Offset	0

Edit OPC Tag Dialog Box:

Tag name: Switch
 Datasource: DP-V0 Scanned DX Inputs
 DataType: Unsigned8 (VT_UI1)
 Station Address: 32
 Offset: 0

Buttons: Ok, Cancel

Buttons: Close, Help

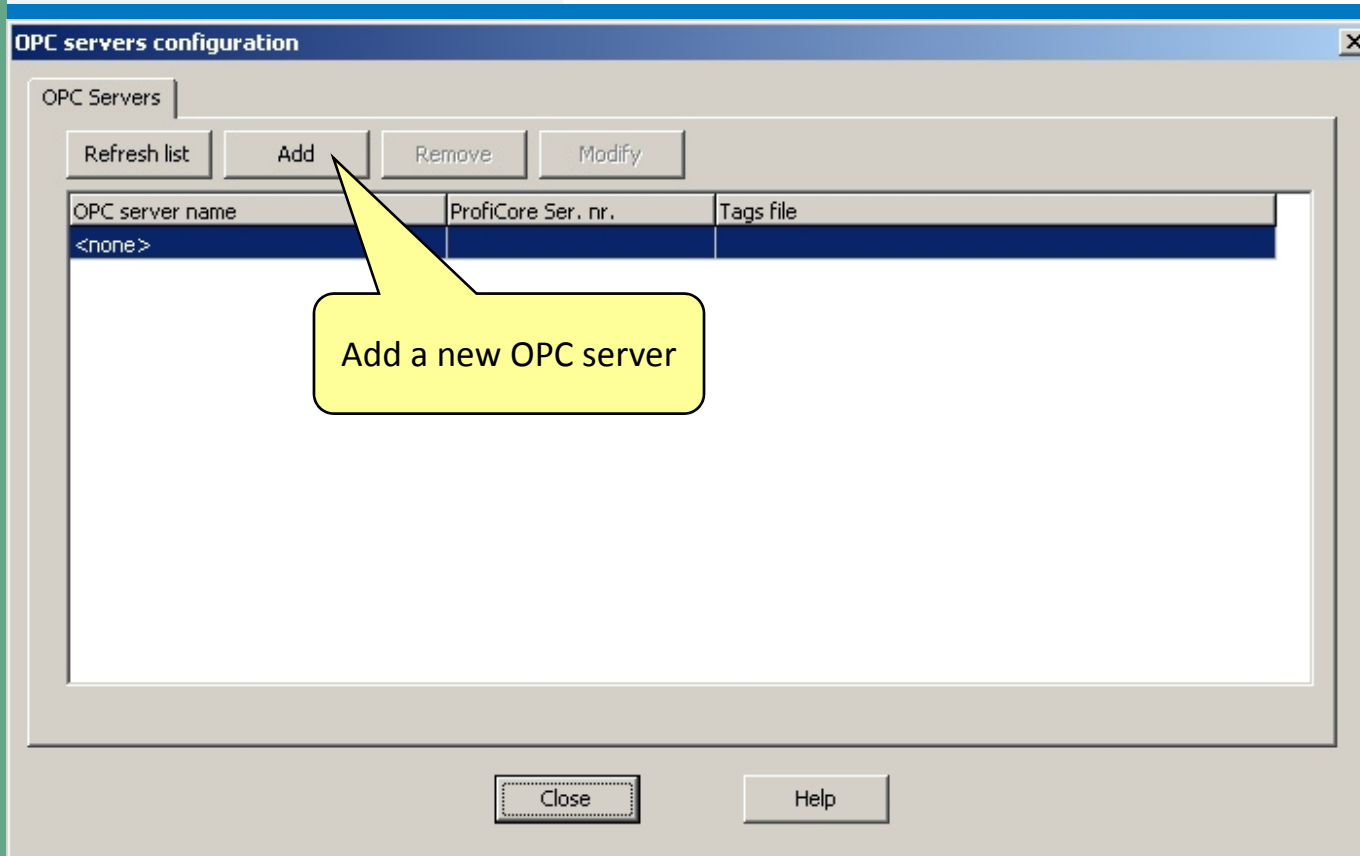
1) Keep in mind that many Tags make the system slow To solve this you can filter Tags in the client you are using.

Select Setup OPC server

The screenshot shows the ProfiTrace for ProfiCore Ultra v2.5 software interface. The 'Settings' menu is open, and the 'Setup OPC Server(s)' option is highlighted. A yellow callout bubble points to this option with the text 'Select Setup OPC Server'. The main window displays a data table with columns 0-9 and rows 0-120.

	0	1	2	3	4	5	6	7	8	9	
0	0				4	5	6	7	8	9	
10	10		11	12	13	14	15	16	17	18	19
20	20		21	22	23	24	25	26	27	28	29
30	30		31	32	33	34	35	36	37	38	39
40	40		41	42	43	44	45	46	47	48	49
50	50		51	52	53	54	55	56	57	58	59
60	60		61	62	63	64	65	66	67	68	69
70	70		71	72	73	74	75	76	77	78	79
80	80		81	82	83	84	85	86	87	88	89
90	90		91	92	93	94	95	96	97	98	99
100	100		101	102	103	104	105	106	107	108	109
110	110		111	112	113	114	115	116	117	118	119
120	120		121	122	123	124	125	126			

Create an OPC Server



- 1) Maximum 16 Servers can be created each with its own Tag groups.

Setting up the OPC Server

The screenshot shows the 'OPC servers configuration' dialog box. It has a title bar with a close button. On the left, there are buttons for 'Add / Modify', 'Accept', and 'Cancel'. The main area contains the following fields and options:

- Server Name:** A text box containing 'ProfiTrace OPC Server'. Callout 1 points to this field.
- ProfiCore Ultra Selection:** A group box containing two radio buttons: 'Any available ProfiCore Ultra' (selected) and 'Serial nr: 00000 (Last 5 digits only)'. Callout 2 points to this group.
- Tag Selection:** A group box containing two radio buttons: 'Default system tags only (statistics, status, etc)' (selected) and 'Tag file (*.pto)'. Below the second radio button is a text box with a browse button (...). Callout 3 points to this group.
- At the bottom, there are 'Close' and 'Help' buttons. Callout 4 points to the 'Accept' button.
- A yellow callout bubble with the text 'Ready!' is positioned above the 'Close' button.

1) When multiple Servers are created, it is best that you work with Tag files (*.PTO).

OPC Server is now available

The screenshot shows a software window titled "OPC servers configuration". At the top, there is a tab labeled "OPC Servers" and a set of buttons: "Refresh list", "Add", "Remove", and "Modify". Below the buttons is a table with three columns: "OPC server name", "ProfiCore Ser. nr.", and "Tags file". The table contains one row: "ProfiTrace OPC Server", "<any>", and "<default system tags>". At the bottom of the window are "Close" and "Help" buttons. Three yellow callout boxes provide information: one points to the "Modify" button, another points to the server name, and a third says "Ready!".

The Server can be modified during operation

OPC server name	ProfiCore Ser. nr.	Tags file
ProfiTrace OPC Server	<any>	<default system tags>

The Server is now available for external applications

Ready!

Example with Matrikon OPC Explorer

Connecting to the ProfiTrace OPC Server

1. Search/Add the OPC server

2. Connect with the OPC server

3. Adding tags

Server Info

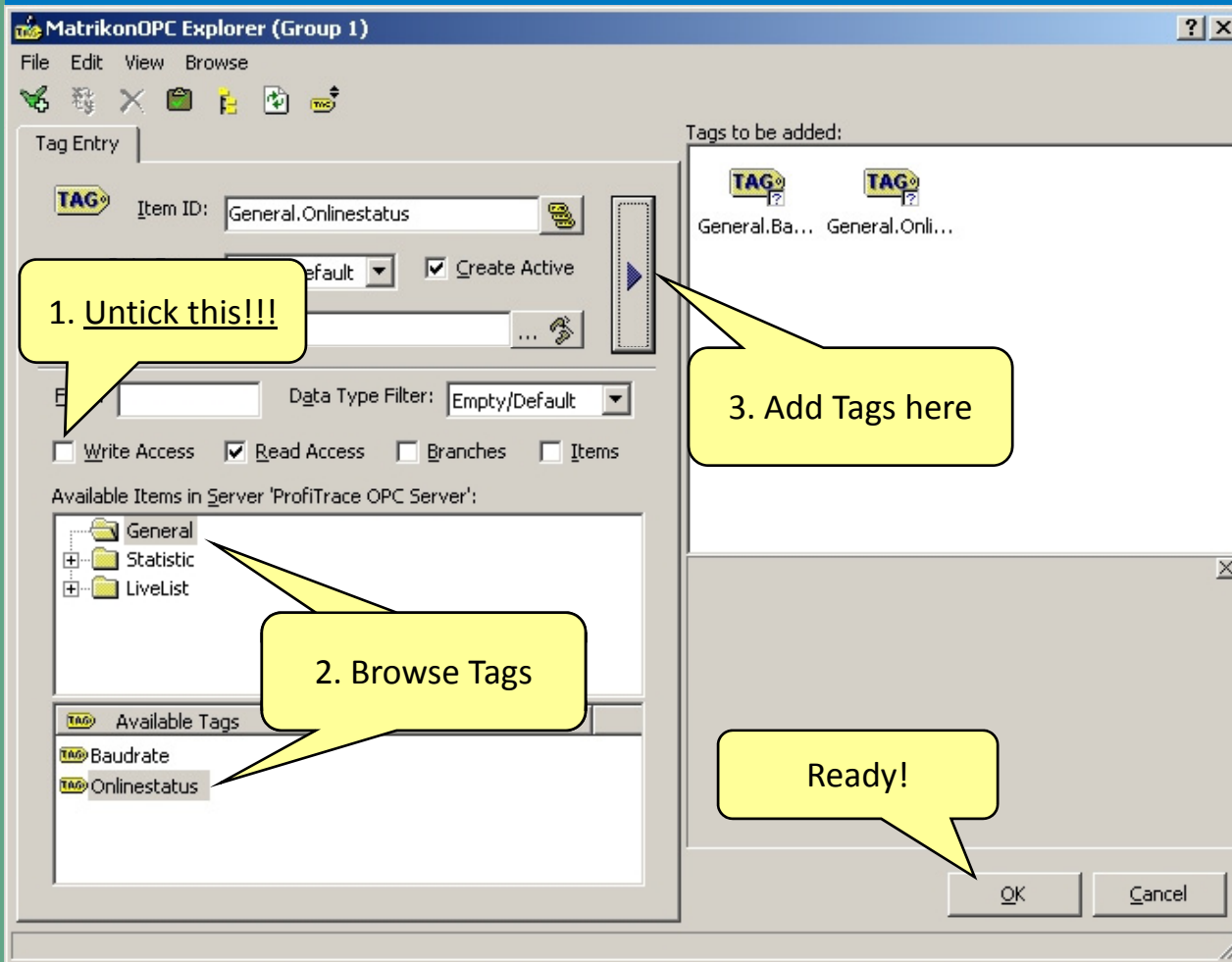
Server: ProfiTrace OPC Server
Connected: No

Group Info

Did you know?
Explorer Tip #1
OPC Explorer can export your current data.
[Click For Details](#)

MatrikonOPC

Select ProfiTrace Tags



Exploring the Tags / Adding more Tags

The screenshot shows the MatrikonOPC Explorer application. The left pane displays a tree view with 'Group 1' selected. The center pane shows a table of tags for 'Group 1'. The bottom pane is divided into 'Server Info', 'MatrikonOPC Tunneller' advertisement, and 'Group Info'.

Server Info:

- Server: ProfitTrace OPC Server
- Connected: Yes
- State: Running
- Groups: 0
- Total Items: 2
- Current Local Time: 03-17-2010 11:51:32.250 PM
- Update Local Time: 03-17-2010 11:42:52.343 PM
- Bandwidth Usage: 0

Group Info:

- Group: Group 1
- Connected (Async I/O): Yes (2.0)
- Active: Yes
- Items: 2
- Current Update Rate: 1000 ms
- Percent Deadband: 0,00%
- Data Change Rate: 0,02 Items/Sec

Contents of 'Group 1' Table:

Item ID	Access Path	Value	Quality	Timestamp	Status
General.Baudrate		0	Bad, non-specific	03-17-201...	Active
General.Onlinestatus		0	Good, non-specific	03-17-201...	Active

ProfiHub A5

5 Port Profibus repeater for tough jobs.....

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- 31 Devices per channel
- Hot device insertion/removal
- Network diagnostics
- Short circuit protection
- Dirty and humid environments
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